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Environmental Education

in Massachusetts

A Resource Guide

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Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Prepared by the
Secretary's Advisory Group on Environmental Education
Fall 1992

Environmental Education

in Massachusetts

A Resource Guide

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Executive Office of Environmental Affairs

William F. Weld, Governor
A. Paul Celluci, Lt. Governor
Susan F. Tierney, Secretary

Prepared by the
Secretary's Advisory Group on Environmental Education
Fall 1992

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Dear Environmental Educator:

I am very proud to introduce this environmental education resource guide and particularly grateful to the Secretary's Advisory Group for Environmental Education (SAGEE) for recognizing the need to revise and expand it and for undertaking its preparation. The Commonwealth of Massachusetts is quite fortunate to have the benefit of the guidance, the effort and the skills of the SAGEE members.

Massachusetts is also the beneficiary of the many dedicated educators who are concerned with issues affecting our environment. These outstanding educators develop innovative approaches to promoting environmental awareness among their students and share their research, ideas and materials with their fellow teachers. I would like to take this opportunity to commend these teachers for their innovative environmental curricula. Their programs are crucial to the development of the environmentally aware citizens who will protect and ensure our future and that of future generations.

The Weld Administration, through the Executive Office of Environmental Affairs, is committed to promoting environmental literacy across the Commonwealth. Those of us who share the goal of an environmentally literate citizenry continue to forge ahead with creative ways to get the message out.

This resource book is one such creative effort. It is designed to give teachers a convenient and comprehensive guide to the materials, facilities and speakers, available at little or no cost to their school systems, to help us achieve this goal of environmental literacy. The resources outlined in this book are provided by teams of educators from governmental agencies, non-profit groups, industry and private institutions of learning.

Again, I appreciate the contribution of the SAGEE members who produced this book and the commitment and concern of the teachers who will request this book. Together, we can help our youth obtain the knowledge and the tools they need to protect and preserve our environment so that future Massachusetts citizens may live healthy and productive lives throughout the next century.

Sincerely,

Susan F. Tierney
Secretary

In 1989, the Executive Office of Environmental Affairs (EOEA) put together a "listing of programs and curricula offered by the agencies of the Commonwealth of Massachusetts." Funds were available to print only 250 copies, a supply which was exhausted long before the demand was met. This booklet is a revised and expanded version of that 1989 publication, and thanks to the generosity of Waste Management of North America, Inc. there should be an adequate number for distribution throughout the state. (Disks are available for other printings; call 727-9800 Ext. 218.)

The Secretary's Advisory Group on Environmental Education (SAGEE), formed in 1989, took responsibility for coordinating this effort. Unlike the first booklet, this one is not limited to state agencies; we have added museums, nature centers, utility companies and other private organizations. The chart at the back of the book is designed to help you locate resources for environmental education.

By getting a copy of this booklet, you have already identified yourself as a supporter of environmental education. From medical waste washing up on beaches to reports of global warming, environmental issues remain at the forefront of public concern. The future health of the planet clearly depends on how well we educate young people about the environment and actions people take to degrade or safeguard it. Environmental education is a life-long process; it should engage children in kindergarten as well as senior citizens voting in a town meeting. This publication is a small, but we hope useful, contribution to that process. All of the resources and people listed here can help meet a critical goal: developing among the people of Massachusetts a strong environmental ethic that will ensure the protection of our most precious legacy—our water, air, and land.

The Executive Office of Environmental Affairs (EOEA) is the state's cabinet-level agency that coordinates all environmental programs in the Commonwealth. The executive office coordinates environmental experts who are available to talk to classes on issues such as trash disposal, recycling, water conservation, acid rain, pollution, open space preservation, Boston Harbor cleanup, farmland protection, and many others. Contact: Executive Office of Environmental Affairs, 100 Cambridge St., Boston, MA 02202 (617) 727-9800 Ext. 218.

Coastal Zone Management Office

The Coastal Zone Management Office (CZM) is responsible for protecting and managing Massachusetts coastal resources. CZM offers a Speakers' Bureau; experts can talk to classes about the coastal environment and how to protect it. CZM also coordinates the state's annual Coastsweep, a fall event that involves people of all ages in beach cleanup and data gathering and analysis. Contact: Public Information Specialist, Coastal Zone Management Office, 100 Cambridge St., Boston, MA 02202 (617) 727-9530.

Division of Conservation Services

The Division of Conservation Services (DCS) works with local communities on protecting environmentally sensitive areas and offers a Speakers' Bureau with experts who can talk to classes about land and water conservation. DCS also co-sponsors an annual "Envir-Othon," a competitive event for high school students that is designed to test their knowledge of natural resources in five categories: soils, forestry, wildlife, aquatics, and current natural resource issues. Contact: Director, DCS, 100 Cambridge St., Boston, MA 02202 (617) 727-1552.

Massachusetts Bays Program

The Massachusetts Bays Program (MBP) provides information on Massachusetts and Cape Cod Bays, coastal and regional issues and the Bays' 6,300 square-mile drainage basin. Contact: Public Outreach Coordinator, Massachusetts Bays Program, 100 Cambridge St., Room 2006, Boston, MA 02202 (617) 727-9530.

Mass ReLeaf

Mass ReLeaf, a joint EOEA/DEM program, is the Commonwealth's connection to a worldwide effort to plant shade trees. Along with helping local communities plant and care for new shade trees, Mass ReLeaf distributes a grade school curriculum, developed by the American Forestry Association. Contact: Mass ReLeaf/ENVest Coordinator, EOEA, 100 Cambridge Street, 20th floor, Boston, MA 02202 (617) 727-9800 Ext. 273.

Massachusetts Water Resources Authority

The Massachusetts Water Resources Authority (MWRA) provides water and sewer services to 61 communities, mostly in the Greater Boston area. Its school education program has two components: one focuses on water supply and conservation, the other on wastewater, household hazardous waste, and the Boston Harbor Project. Curriculum materials and support services are available at no charge to schools in the MWRA service area. MWRA staff conduct classroom visits, field trips, and teacher workshops. To contact MWRA school staff, call (617) 241-4643 for water conservation and (617) 242-7310 for wastewater topics.

Office of Technical Assistance

Office of Technical Assistance (OTA) distributes information on hazardous household waste and works with teachers on eliminating hazardous waste from schools, especially chemistry laboratories. Contact: Program Coordinator, Hazardous Household Waste, Office of Technical Assistance, 100 Cambride Street, 19th floor, Boston, MA 02202 (617) 727-3260 Ext. 696 or Director of Policy and Outreach, same address (617) 727-3160 Ext. 688.

The Department of Fisheries, Wildlife and Environmental Law Enforcement (DFWELE) supports a wide offering of educational programs. Some are designed as curriculum supplements, while others are not specifically designed for schools but can be adapted for the classroom.

Aquatic Resource Education Program

The Aquatic Resource Education Program (AREP) teaches people of all ages, especially youngsters, about relationships between fish and their environment. The program teaches freshwater fishing skills, basic safety techniques, outdoor ethics, and aquatic ecology. Contact: DFW Field Headquarters, Rte. 135, Westboro, MA 01581 (508) 792-7270.

Aquatic Wild Program

The Aquatic Wild Program provides teachers with activities for the study of coastal and inland wetlands systems and related wildlife for grades K-12. Contact: DFW Field Headquarters (508) 792-7270.

Hunter Education Program

The Hunter Education Program offers free courses on basic hunter safety, bow hunting, waterfowl hunting, trapper education, and map, compass, and survival training. Contact: Chief of Hunter Education Bureau, Box 408, Westminster, MA 01473 (508) 792-7434 or (617) 727-3623.

Massachusetts Junior Conservation Camp

The Massachusetts Junior Conservation Camp, administered by the Division of Fisheries and Wildlife, is a two week summer program for 14 to 17 year olds. The program stresses all aspects of fisheries and wildlife management and recreational sports such as fishing, hunting, and boating in a fun setting. Contact: DFW Field Headquarters (508) 792-7270.

Natural Heritage and Endangered Species Program

The Natural Heritage and Endangered Species Program sponsors a slide show about the hundreds of endangered and threatened species in Massachusetts, and the means by which to preserve wildlife habitats that protect these rare species. Contact: 100 Cambridge St., Room 1902, Boston, MA 02202 (617) 727-9194.

Project Wild

Project Wild is a program taught by DFW staff and volunteer instructors for teachers of primary and secondary schools and youth group leaders. Teacher training workshops offer activities and materials which help to integrate wildlife issues into the regular curriculum. Contact: DFW Field Headquarters (508) 792-7270.

Riverways and Adopt-a-Stream Programs

The Riverways and Adopt-A-Stream Programs offer instruction on river protection techniques, strategies for open space protection, and tips on getting diverse groups to work together for the common goal of watershed protection. Contact: DFWELE, 100 Cambridge St., Room 1901, Boston, MA 02202 (617) 727-1614.

Watershed Education Project

The Watershed Education Project provides secondary school teachers with materials, guidelines and a network to help students study their home watershed and combine efforts with other schools and students in the watershed. Contact: DFW Field Headquarters (508) 792-7270.

The Department of Environmental Management (DEM) offers few formal environmental education programs; its strength lies in the interpretive activities that take place during the summer months at popular state beaches, day-use, and camping areas. These range from Junior Ranger programs to watershed walks, from nature crafts to pond studies, and are designed to actively engage visitors of all ages. Contact: Chief of Interpretive Services, DEM, 100 Cambridge Street, 19th floor, Boston, MA 02202 (617) 727-3180.

Arbor Day

In late April, DEM staff from around the state conduct Arbor Day programs designed to educate school children and the general public on the importance of trees. Contact: Asst. Chief, Bureau of Shade Tree Management, Lynn Heritage State Park, 590 Washington Street, Lynn, MA 01852 (617) 598-1974.

Forest Fire Prevention Program

The Forest Fire Prevention program is specifically geared for grades K-6 and offers a variety of opportunities for children to participate in fire prevention activities. The Department's Chief Fire Warden and Smokey Bear are available to work with teachers on program development for the classroom. Contact: Chief Fire Warden, DEM Field Headquarters, P.O. Box 173, Lancaster, MA 01523 (508) 368-1780.

Waquoit Bay National Estuarine Research Reserve

One special DEM educational resource is the Waquoit Bay National Estuarine Research Reserve, located on Cape Cod, which offers a variety of environmental education programs and materials. Local teachers have access to training and curriculum kits on the dynamics of a watershed. There are also informational leaflets on coastal issues available. Contact: Reserve Manager, P.O. Box 92W, Waquoit, MA 02536 (617) 727-5537 or (508) 457-0495.

The Department of Environmental Protection (DEP, formerly DEQE) is the state agency responsible for ensuring clean air and water, safe management and disposal of solid hazardous wastes, timely cleanup of hazardous waste sites and spills, and preservation of wetlands and coastal resources. Several DEP divisions offer materials of interest to educators.

Air Quality: 1 Winter Street, Boston, MA 02108 (617) 292-5630

Water Quality: 1 Winter Street, Boston, MA 02108 (617) 292-5931

Wetlands and Waterways: 1 Winter Street, Boston, MA 02108 (617) 292-5908

Solid Waste: 1 Winter Street, Boston, MA 02109
(617) 292-5988/Education Coordinator

DEP has developed an interdisciplinary, activity-oriented school resource guide for grades K-12. *The Solid Waste Management Resource Guide for Massachusetts Schools* is a collection of classroom activities and background information about solid waste management issues. This 300-page guide includes "hands-on" projects for younger children and investigative and discussion projects for older students.[1]

[1]The DEP has sent a complimentary copy of this guide to every Massachusetts city and town. Located at the main library, the guide can be a source of information on solid waste issues for any member of the community. Copies of the *Resource Guide* are also available to the general public at the State House Bookstore (617) 727-2834 for $13.75 ($17.00 including postage and handling).

Metropolitan District Commission (MDC) Reservations and Historic Sites offer a variety of school programs at the Commission's many reservations, parks, reservoirs, historic sites and recreation facilities. Within the greater Boston area, the Commission provides stewardship for 15,000 acres in 35 communities—open space preserved for its paths and trails, deep forests, scenic hills and natural history. Programs are site specific and subjects include cultural and natural history and earth sciences for all grade levels. Programs include plant and animal identification, animal tracking, star gazing and constellation identification, marine ecology, natural and cultural resource management, local history and Native Americans. Contact: Reservations, MDC, 20 Somerset Street, Boston, MA 02108 (617) 727-5250/2744.

For the Reservation or Historic Site nearest you:

Blue Hills (Milton/Canton/Randoph) (617) 698-1802
Hemlock Gorge (Newton/Wellesley) (617) 239-0659
Brook Farm Historic Site (West Roxbury) (617) 727-4573
Quincy Quarries Historic Site (Quincy) (617) 727-4573
Elm Bank (Wellesley/Dover) (617) 698-1802
Beaver Brook (Belmont/Waltham) (617) 484-6357
Middlesex Fells (Stoneham/Malden/Medford) (617) 322-2851
Breakheart (Saugus) (617) 233-0834
Harbor Islands (Peddock, Georges, Lovells) (617) 727-5290
Castle Island (617) 268-5744

Quabbin Reservoir

At Quabbin Reservoir educational programs are available for schools within the watershed system. Some programs are coordinated through the Massachusetts Water Resources Authority (see page 7). Emphasis is on water quality and conservation, wildlife, and the history of Quabbin. Groups may visit the Quabbin Visitor Center and Park without a scheduled program, but must notify the staff well in advance to make arrangements for scheduled programs. Contact: Education Program Coordinator, Quabbin Visitor Center, 485 Ware Road, PO Box 628, Belchertown, MA 01007 (413) 323-7221.

Trailside Museum

The Massachusetts Audubon Society operates the Trailside Museum in Milton for the MDC. The museum staff offers natural history, "hands-on" field trips to school and community groups; overnight programs are available at the Chickatawbutt Hill Education Center. Reservations are required. Contact: Program Coordinator, Trailside Museum, 1904 Canton Avenue, Milton, MA 02186 (617) 333-0690.

Boards of Health

Another major source of information is the local Board of Health. Many of the state's environmental programs are geared to protect the public health and safety of a community, and local health experts can talk of their role in addressing the impact of problems like toxic waste spills, lead in drinking water, and the discovery of medical waste on beaches. There are many other local contacts who can be tapped; your landfill operator is an expert in solid waste disposal, while the historical commission is another good source of information on a community's natural resources. Contact your local Board of Health.

Conservation Commissions

The local Conservation Commission is the first line of defense against development that can harm environmentally sensitive areas of the Commonwealth. Members of local boards and commissions are often willing to come into classrooms to talk about how they weigh environmental versus economic concerns and what areas of your community, like wetlands, need additional protection. Contact your local Conservation Commission or the Massachusetts Association of Conservation Commissions, 10 Juniper Rd., Belmont, MA 02178 (617) 489-3930.

The seven investor owned electric companies, as well as several of the municipal electric companies of Massachusetts, provide a wide variety of programs that help students and teachers deal with environmental and energy issues. The investor owned companies distribute catalogs, run tours, have in-school programs but they can only service students and teachers in their own service area. The municipal light departments have programs on a smaller scale. To find out what services are available for your school, consult the grid at the back of this booklet and contact the utility company that serves your community. Contacts at each company are as follows:

Investor Owned Electric Companies

Boston Edison
Educational Services Manager
800 Boylston Street, Boston, MA 02199
(617) 424-2448

COMElectric
Public Communications Coordinator
2421 Cranberry Highway, Wareham, MA 02571
(800) 642-7030 Ext. 3402

Eastern Edison
EUA Service Corporation
Community Relations Coordinator
750 West Center Street, P.O. Box 543,
West Bridgewater, MA 02379
(508) 559-1000 Ext. 3653

Fitchburg Gas & Electric Company
Communications Coordinator
285 John Fitch Highway, P.O. Box 2070,
Fitchburg, MA 01420
(508) 343-6931

Massachusetts Electric Company
Educational Services Representative
25 Research Drive, Westborough, MA 01581
(508) 366-9011 Ext. 2621

Science and Nature Center at Seabrook Station
Educational Services Supervisor
PO Box 300, Seabrook, NH 03874
(800) 338-7482

Western Massachusetts Electric Company
Senior Communities Relations Representative
174 Brush Hill Avenue, West Springfield, MA 01089-1229
(413) 787-9011

Municipal Company Contacts

Littleton Light Department
Director of Energy Management
Whitcomb Avenue, Box 2406, Littleton, MA 01460
(508) 486-3104

Northeast Public Power Association
Municipal Electric Companies
Director of Public Information
1700 West Park Drive, Westborough, MA 01581
(508) 898-3554

Town of Danvers Engineering Division
Energy Advisor
Burroughs Street, Danvers, MA 01923
(508) 774-3021

Camp Jewell Outdoor Center
Prock Hill Road, Colebrook, CT 06021
(203) 379-2782

Environmental education program located on 500 acres, offers both in-house and outreach programs to area schools. Programs include nature's classroom as well as adventure classes.

Cape Outdoor Discovery
47 Old Country Road, Buzzards Bay, MA 02532
(508) 224-3040

A non-profit environmental education organization on 420 acres in Sandwich, MA; offers one-day field trips, teacher workshops and curriculum materials to public schools and other organizations.

Chewonki Foundation
RR2, Box 1200, Chewonki Road, Wiscasset, ME 04578
(207) 822-1323

A non-profit environmental education center offering programs which encourage participants to develop their personal potential, gain a sense of community, heighten their interest in and understanding of the natural world.

The Environmental Schools
P.O. Box 381, Ocean Park, ME 04063
(207) 934-7374

A non-profit environmental education program that offers schools a residential program Monday-Friday (September-June) at two locations, Ferry Beach and Bridgton, Maine. The program's emphasis is on coastal and mountain environments including wildlife and plant studies.

Horizons For Youth
121 Lakeview Street, Sharon, MA 02067
(617) 828-7550

An environmental education program offering a variety of lessons to help students gain insight into the natural environment, into the community, into his/her own self, and the inter-relationship of all. The programs are experiential and consist of four elements: preparation, environmental experience, challenge, and integration.

W. Alton Jones Campus
URI Environmental Education Center
401 Victory Highway, W. Greenwich, RI 02817
(401) 397-3304

The environmental farm and education center at the university's W. Alton Jones Campus is situated on 2,300 acres of forest and farmland. The Center has been offering quality environmental education programs to schools for more than 20 years. Teacher training and public programs are available as well.

Keewaydin Environmental Ed. Center
Rt. 53 Lake Dunmore, Salisbury, VT 05769
(802) 352-4247

Environmental education center located on 350 acres, Keewaydin offers programs focused on "community," including local natural communities, human communities and their interaction historically and at present. Human impact and responsibility is stressed.

Nature's Classroom
RR1, 61 Harrington Road, Southbridge, MA 01550
(508) 764-8321

An environmental education teaching service combining eight centers which offer eclectic exploration of the student's total environment. Dedicated to learning motivation and community awareness.

Otter Lake Conservation School
Rt. 31, Greenfield, NH 03047
(603) 547-3412

Located on 350 acres, offers environmental education programs along with ecology conservation classes and group dynamic building.

Sargent Camp
RD 3 Peterborough, NH 03458
(603) 525-3311

Offers residential school programs, geared to grades 5-8, that incorporate experiential environmental and adventure curricula, including a high ropes course. The purpose is to foster an attitude of environmental stewardship and positive group dynamics.

Stone Environmental School
1 Park Place, Saco, ME 04072
(207) 283-4667

A non-profit organization with sites in Maine and Massachusetts, Stone offers programs on environmental education with emphasis on sensory awareness. Exhibits, displays, library, and trails available.

Thompson Island (Outward Bound)
P.O. Box 127, Boston, MA 02127-0002
(617) 328-3900

An environmental education program that strives to instill in young people fundamental qualities of character, including self-esteem, empathy for others and caretaking for the environment.

Aquarium of the National Marine Fisheries Service
166 Water Street, Woods Hole, MA 02543
(508) 548-7684/Public Affairs Specialist

Informal tours for schools and college groups. Collections of fish, invertebrates fauna, displays relating to marine environment. Aquarium displays, films/videos and eduational guidebooks available.

Cape Cod Museum of Natural History
Route 6A, Drawer R, Brewster, MA 02631
(508) 896-3867/Education Director

Natural history museum with emphasis on Cape Cod flora, fauna, and environment. Education for public schools, lectures and field walks for all ages. 80 acres of woods, saltmarsh and trails.

Cape Cod National Seashore
Marconi Station, South Wellfleet, MA 02663
(508) 349-3785/Chief of Interpretation

Formally organized environmental education programs for school children. Permanent exhibits on the natural history and archeology of Cape Cod. Self-guided nature trails.

The Children's Museum
300 Congress Street, Boston, MA 02210-1034
(617) 426-6500/Education Department
(617) 426-5466 TDD

Located in downtown Boston; group and informal programs; teacher, parent and student workshops; participatory exhibits and over 90 kit rentals available; Recycle Center for raw materials for art projects.

The Discovery Museums
177 Main Street, Acton, MA 01720
(508) 264-4200/Director of Education
(508) 264-0030 TDD

Museum is housed in a 10-room Victorian house and the Science Discovery Museum. Hands-on participatory room with self guided and organized programs for children. Three acres of wooded land. Topics include dinosaurs, chain reations, jungle, and the Discovery Ship.

Environmental Protection Agency
Region 1, J.F.K. Federal Building, Boston, MA 02203
(617) 565-9447/Environmental Education Coordinator

The newly established Environmental Education program has the goal to promote environmental education information and materials and grant funds. Ecology poster and poem contest, skit performance about superfund cleanups, Adopt-a-Wetland program curriculum.

Franklin Park Zoo/African Tropical Forest
Franklin Park
Boston, MA 02121
(617) 442-2002 Ext. 124/Senior Educator
Ext. 125/Outreach Coordinator

This 72-acre zoological park, located at the "brooch" of Fredrick Law Olmsted's Emerald Necklace, offers organized, interactive educational programs that teach the interdependence of all life from a "global village" perspective. Special features are live education animals, North America's largest open space tropical forest zoo exhibit, Bird's World, Contact Barn at Children's Zoo, and the Zoo-To-You Wildlife on Wheels traveling programs.

Garden in the Woods
Hemenway Road, Framingham, MA 01701
(508) 877-7630/Education Director

45 acres of woodland, kettle holes, bogs and brook. Nature walks for children; formal educational programs for adults; visitor center bookstore; 3,000 volume library specializing in botany, gardening and natural history.

Green Briar Nature Center
6 Discovery Hill Road, E. Sandwich, MA 02537
(508) 888-6870/Education Director

A non-profit educational institution offering programs on natural history and environmental education for children and adults year-round. Exhibits, library, gardens and trails open to the public.

Habitat Institute for the Environment
Nature Center/Environmental Education Center,
10 Juniper Road, Belmont, MA 02178
(617) 489-5050/Education Director

Located on a 35-acre wildlife sanctuary; offers environmental education and natural history programs of all kinds to children and adults. Outreach programs are an important aspect of the center's mission.

Hale Reservation Outdoor Education Center
80 Carby Street, Box 310
Westwood, MA 02090
(617) 326-1770

A 1200-acre outdoor education and recreation center with seven day camps, family memberships, year-round programs for schools and other groups.

Harbor Explorations Institute for Learning & Teaching
UMass Boston Harbor Campus
Boston, MA 02125
(617) 287-7666/ Program Coordinator

This program allows students grade 4 and up to explore the Boston and Salem Harbor Ecosystems with a hands-on trip aboard the oceanographic "Envirolab." On a 2.5 hour trip, participants use real equipment to obtain data on the marine environment.

Hitchcock Center for the Environment
Nature Center, 525 S. Pleasant Street, Amherst, MA 01002
(413) 256-6006/Administrative Coordinator

Offers public programs, in-school presentations, and teacher training on environmental themes. Building contains an art gallery, children's area, comprehensive resource center, and bookstore. 27 acres of woodland and fields.

Kendall Whaling Museum
27 Everett Street
PO Box 297
Sharon, MA 02067
(508) 02067/Education Curator

Nine maritime galleries house an outstanding collection of nautical art, history and ethnology celebrating the human fascination with whales. Films, lectures, tours, and school programs are offered year-round.

Lloyd Center for Environmental Studies
Environmental Science Center, 430 Potomska Road,
S. Dartmouth, MA 02748
(508) 990-0505/Education Director

Offers programs concerning coastal and estuarine environments for casual visitors, families, professional scientists, educators and students. Teacher training and resource library.

Manomet Bird Observatory
Environmental Education and Research Center, Box 936,
Manomet, MA 02345
(508) 224-6521/Educational Director

A center for long-term environmental research and education. Manomet's studies improve understanding of natural systems and promote conservation action. *Planting for Wildlife* publication.

Massachusetts Audubon Society
Main Office, South Great Road, Lincoln, MA 01773
(617) 259-9500/Director of Education

Massachusetts Audubon provides environmental education opportunities for adults and children, preserves single parsels of open space, offers a wide range of recreational opportunities, and performs scientific research. Trained teachers use the open spaces as "outdoor" classrooms.

Massachusetts Cooperative Extension
Stockbridge Hall
U. Mass, Amherst, MA 01003
(413) 545-2646

Variety of programs for 4-H and community groups; trains teachers in Project Learning Tree.

Massachusetts Horticultural Society
Horticultural Hall
300 Massachusetts Ave., Boston, MA 02115
(617) 536-9280

Several departments provide services to the public. The library holds information for novices and professionals alike. The education department offers adult education, children's programs, and teacher training. The PlantMobile travels, reaching everyone from children to the elderly. The Community Service Department assists neighborhoods to develop and improve parklands.

Museum of Science
Science Park, Boston, MA 02114-1099
(617) 589-0100/(617) 227-3235 TDD

Formally organized programs for children and adults. Collections of natural materials in standing exhibits. 32,000 volumes for interlibrary loan or use on premises.

Nantucket Maria Mitchell Association
2 Vestal Street, Nantucket, MA 02554
(508) 228-9198
Summers only

A historic house of 1790 and Natural Science Museum. Guided nature and bird walks organized for children and adults. 9,000 volume library of natural science for interlibrary loan, year-round. Public programs with observatory and viewing nights.

New England Aquarium
Central Wharf, Boston, MA 02110
(617) 973-5200

Live aquatic displays; formally organized education programs for children and adults; traveling exhibitions. library for educators; materials to borrow and kits available.

New England Science Center
Environmental Science Museum
222 Harrington Way, Worcester, MA 01604
(508) 791-9211/Program Director

Formally organized programs for children and adults. Participatory exhibits, zoological park and nature conservation center; teaching kits for rent; planitarium and observatory program available .

New England Wildlife Center
19 Fort Hill Street, Hingham, MA 02043
(617) 749-5387/Education Director

Provides outreach and in-house programs on topics related to wildlife protection and natural history education.

Northfield Mountain
Environmental and Recreation Center
RR2, Box 117, Northfield, MA 01360
(413) 659-3714

Located at the site of the Northeast Utilities Hydroelectric Pump Station. Recreation and environmental education opportunities are available throughout the year as are hiking, camping, canoe rentals, skiing, interpretive programs and boat tours.

Peabody Museum of Salem
East India Square, Salem, MA 01970
(508) 745-1876/Director of Education

Artifacts and works of art brought by master mariners; collections of plant and animal life of Essex County and nearby Gulf of Maine waters; in-house and outreach programs; formally organized educational programs for children and adults.

South Shore Natural Science Center
Jacobs Lane, Norwell, MA 02061
(617) 659-2559

47-acre environmental education facility. Participatory exhibits and trails; organized education programs for children and adults; traveling exhibits for school loan service.

Springfield Science Museum
236 State Street, Springfield, MA 01103
(413) 733-1194/Education Director

Guided tours of the Hands-On Exploration Center; formally organized education programs for children and adults; aquarium, planetarium and observatory.

Recycling Facilities

City of Boston Recycling Program

Seven drop-off locations; citywide curbside newspaper collection; pilot curbside multimaterial collection (jamaica Plain); leaf composting. Speakers and literature available.
(617) 635-4959/Recycling Coordinator

E.L. Harvey & Sons, Inc.
P.o. Box 1243, Westboro, MA 01581
(508) 836-3000

Tours offered by appointment only.

Western Mass. Materials Recycling Facility
c/o DEP, 436 Dwight Street, Springfield, MA 01103
(413) 784-1100 Ext. 239/Recycling Program Manager

This state-owned facility receives and processes over 200 tons daily of recyclable material from 92 western Massachusetts communities. The facility offers tours, by appointment. Tours are free and include a slide show and walk-through of the facility.

A Greener Boston: An Environmental Resource Directory for the Greater Boston Area.
Catherine Walthers
Chronicle Books, 275 Fifth Street, San Francisco, CA 94103
ISBN 0-8118-0166-7 ($9.95)

New England Energy Education Guide (2nd Edition)
Duane Day
US Department of Energy
1 Congress Street #1101, Boston, MA 02114
(617) 565-9705

Northeast Field Guide to Environmental Education (1991)
Antioch New England Graduate School,
Box C, Roxbury Street, Keene, NH 03431
[$25 plus $3 postage and handling; checks payable to Antioch New England]

Plant Science Directory (January 1992)
Where to Find Horticultural and Environmental Education Programs for Teachers and Children in Eastern Massachusetts
Massachusetts Horticultural Society
Horticultural Hall, 300 Massachusetts Avenue,
Boston, MA 02115
(617) 536-9280

Resource Guide for Educators (1991-1992)
Network for Environmental Science Education in Southeastern Massachusetts
c/o Sea Grant Program
Woods Hole Oceanographic Institution,
Woods Hole, MA 02543

Massachusetts Association of Science Supervisors
Box 3031, Saxonville, MA 01701-0601
Annual Meeting
Newsletter: *M.A.S.S. Matters*

Massachusetts Association of Science Teachers
P.O. Box 87
Westside Station, Worcester, MA 01602
Annual Meeting
Newsletter: *Masthead*

Massachusetts Environmental Education Society
15 State Street, Boston, MA 02109
Annual Conference
Newsletter: *Observer*
New England Journal of Environmental Education

Massachusetts Marine Educators Institute for Learning and Teaching
U. Mass Boston, Dorchester, MA 02125
Annual Conference and High School Symposium
Newsletter: *Flotsam and Jetsam*

Environmental Education in Massachusetts
Resource Chart

Executive Office
of Environmental Affairs

	Resources									Topics										
	Curriculum	Library/Resource Ctr.	Speakers	Workshops	Film/Video	Newsletter	Tours/Field Trips	Volunteer Opp./Comm. Serv.	Publications	Air Quality	Water Quality	Water Conservation	Energy Conservation	Nature/Wildlife	Solid Waste/Recycling	Toxics/Hazardous Waste	Soil/Wetlands	Conservation/Open Space	Coastal Ecology	Safety
State Agencies																				
Executive Office of Environmental Affairs (EOEA)			•							•	•	•			•	•	•	•		
Coastal Zone Management Office (CZM)	•				•	•		•	•		•								•	
Division of Conservation Services (DCS)	•		•									•		•			•	•	•	
Mass ReLeaf	•							•										•		
Mass. Water Resources Authority (MWRA)	•	•	•	•	•	•	•				•	•				•				
Office of Technical Assitance (OTA)									•							•				
Dept. of Fish., Wildlife, & Environ. Law Enforce. (DFWELE)																				
Aquatic Resource Education	•			•							•			•					•	•
Aquatic Wild	•			•										•					•	
Hunter Education				•										•						•
Mass. Junior Conservation Camp														•				•		•
Natural Heritage & Endangered Species					•									•						
Project Wild	•			•										•			•	•		
Riverways/Adopt-a-Stream	•								•		•				•	•	•			
Dept. of Environmental Management (DEM)							•	•						•	•			•	•	
Arbor Day			•											•						
Forest Fire Prevention	•		•	•				•						•						•
Waquoit Bay Nat'l Estuarine Research Reserve	•	•		•					•		•							•	•	
Dept. of Environmental Protection (DEP)																				
Air Quality									•	•										
Water Quality		•			•				•		•	•						•		
Wetlands & Waterways		•	•		•				•		•			•			•	•	•	
Solid Waste	•		•	•					•						•	•				
Metropolitan District Commission (MDC)							•	•						•				•		
Quabbin Reservoir		•	•		•		•	•			•	•		•				•		
Trailside Museum			•	•		•	•	•						•						
Local Resources																				
Boards of Health			•							•	•					•				
Conservation Commissions			•							•	•	•				•	•	•	•	
Massachusetts Utility Educators Association																				
Investor Owned Electric Companies																				
Boston Edison	•	•	•	•	•	•	•		•	•			•	•	•					•
COMElectric Co.	•	•	•	•	•		•		•	•			•						•	•
Eastern Edison	•	•	•	•	•		•		•	•			•	•	•					•
Fitchburg Gas & Electric Co.	•	•	•	•	•		•		•	•			•	•	•					•
Mass. Electric Co.	•	•	•	•	•	•	•		•	•			•	•	•					•
Seabrook Science & Nature Center	•	•	•	•	•	•	•		•	•	•		•	•	•		•	•	•	•
Western Mass. Electric Co.	•	•	•	•	•		•		•	•			•	•	•					•
Municipal Companies																				
Littleton Light Dept.			•		•				•		•		•							•
Northeast Public Power Assoc.			•						•				•							•
Town of Danvers Engineering Div.			•		•				•		•	•	•							•

ENVIRONMENTAL EDUCATIO

Executive Office
of Environmental Affairs

	Resources									To				
	Curriculum	Library/Resource Ctr.	Speakers	Workshops	Film/Video	Newsletter	Tours/Field Trips	Volunteer Opp./Comm. Serv.	Publications	Air Quality	Water Quality	Water Conservation	Energy Conservation	Nature/Wildlife
State Agencies														
Executive Office of Environmental Affairs (EOEA)			•							•	•	•		
Coastal Zone Management Office (CZM)	•				•	•		•	•		•			
Division of Conservation Services (DCS)	•		•									•		•
Mass ReLeaf	•							•						
Mass. Water Resources Authority (MWRA)	•	•	•	•	•	•	•				•	•		
Office of Technical Assitance (OTA)									•					
Dept. of Fish., Wildlife, & Environ. Law Enforce. (DFWELE)														
Aquatic Resource Education	•			•							•			•
Aquatic Wild	•			•										•
Hunter Education				•										•
Mass. Junior Conservation Camp														•
Natural Heritage & Endangered Species					•									•
Project Wild	•			•										•
Riverways/Adopt-a-Stream	•								•		•			
Dept. of Environmental Management (DEM)							•	•						•
Arbor Day			•											•
Forest Fire Prevention	•		•	•				•						•
Waquoit Bay Nat'l Estuarine Research Reserve	•	•		•					•		•			
Dept. of Environmental Protection (DEP)														
Air Quality									•	•				
Water Quality		•			•				•		•	•		
Wetlands & Waterways		•	•		•				•		•			•
Solid Waste	•		•	•					•					
Metropolitan District Commission (MDC)							•	•						•
Quabbin Reservoir		•	•		•		•	•			•	•		•
Trailside Museum			•	•		•	•	•						•
Local Resources														
Boards of Health			•							•	•			
Conservation Commissions			•							•	•	•		
Massachusetts Utility Educators Association														
Investor Owned Electric Companies														
Boston Edison	•	•	•	•	•	•	•		•	•			•	•
COMElectric Co.	•	•	•	•	•		•		•	•			•	
Eastern Edison	•	•	•	•	•		•		•	•			•	•
Fitchburg Gas & Electric Co.	•	•	•	•	•		•		•	•			•	•
Mass. Electric Co.	•	•	•	•	•	•	•		•	•			•	•
Seabrook Science & Nature Center	•	•	•	•	•	•	•		•	•	•		•	•
Western Mass. Electric Co.	•	•	•	•	•		•		•	•			•	•
Municipal Companies														

MASSACHUSETTS RESOURCE CHART

	Resources									Topics										
	Curriculum	Library/Resource Ctr.	Speakers	Workshops	Film/Video	Newsletter	Tours/Field Trips	Volunteer Opp./Comm. Serv.	Publications	Air Quality	Water Quality	Water Conservation	Energy Conservation	Nature/Wildlife	Solid Waste/Recycling	Toxics/Hazardous Waste	Soil/Wetlands	Conservation/Open Space	Coastal Ecology	Safety
Residential Environmental Education Centers																				
Camp Jewel Outdoor Ctr.	•		•	•	•	•	•	•				•	•	•	•					•
Cape Outdoor Discovery	•		•			•	•		•		•	•	•	•	•	•	•	•	•	
Chewonki Foundation	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
The Environmental Schools	•		•	•			•			•	•	•	•	•	•		•	•	•	•
Horizons for Youth	•		•	•		•	•	•			•	•	•	•	•	•	•	•		•
W. Alton Jones Campus	•		•	•	•		•	•			•	•	•	•	•	•	•	•		
Keewaydin Environmental Education Ctr.	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•		•
Nature's Classroom	•						•		•			•	•	•			•		•	•
Otter Lake Conservation School			•				•					•	•	•	•		•	•		•
Sargent Camp	•		•				•		•			•	•	•	•	•	•	•		•
Stone Environmental School	•		•	•			•			•	•	•	•	•	•		•	•	•	•
Thompson Island (Outward Bound)	•					•	•	•			•			•			•	•	•	
Other Resources																				
Aquarium of the National Marine Fisheries Service	•				•		•							•					•	
Cape Cod Museum of Natural History	•	•	•		•	•	•	•				•		•		•			•	
Cape Cod National Seashore			•				•	•						•		•			•	
The Children's Museum	•	•		•	•		•													
The Discovery Museums				•		•	•	•					•	•						
Environmental Protection Agency	•								•	•	•	•	•		•	•	•	•		
Franklin Park Zoo/African Tropical Forest			•	•			•	•						•				•		
Garden in the Woods		•		•			•		•					•				•		
Green Briar Nature Ctr.		•	•	•	•	•	•	•	•					•			•	•	•	
Habitat Institute for the Environment		•	•	•		•	•	•						•						
Hale Reservation Outdoor Education Ctr.							•							•			•	•		
Harbor Explorations Institute for Learning & Teaching	•						•				•									
Hitchcock Ctr. for the Environment	•	•	•	•	•	•	•	•	•			•		•						
Kendall Whaling Museum	•	•	•	•		•	•							•					•	
Lloyd Ctr. for Environmental Studies	•	•		•	•	•	•	•						•					•	
Manomet Bird Observatory	•		•	•	•	•	•	•						•				•		
Mass. Audubon Society	•	•	•		•	•	•	•	•	•	•	•		•	•		•	•	•	
Mass. Cooperative Extension Services	•		•	•			•	•	•					•			•	•	•	
Mass. Horticultural Society		•		•	•				•					•			•			
Museum of Science	•	•	•	•	•		•	•		•	•			•					•	
Nantucket Maria Mitchell Assoc.		•					•							•					•	
New England Aquarium	•	•	•	•	•	•	•	•	•		•			•			•		•	
New England Science Ctr.	•	•	•	•			•	•						•			•	•	•	
New England Wildlife Ctr.			•		•		•	•	•					•			•		•	
Northfield Mtn. Environmental Rec. Ctr.	•		•	•			•	•					•	•						
Peabody Museum of Salem	•	•	•	•			•							•					•	
South Shore Natural Science Ctr.	•		•				•	•						•			•	•	•	
Springfield Science Museum	•	•	•	•			•	•						•			•		•	
Recycling Facilities							•					•			•					

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100 Cambridge Street, 20th floor
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To: